

## THRUST BLOCK BEARING AREA REQUIREMENTS (S.F.)

PIPE DIA.	FIRE HYDRANT, TEE DEAD ENDS AND VALVES (EACH SIDE)	90 ° BEND	45 ° BEND	22 1/2 ° BEND
4"	1.2	1.8	1.0	0.5
6"	2.6	3.8	2.0	1.0
8"	4.4	6.3	3.4	1.7
10"	8.1	11.4	6.2	3.1
12"	11.5	16.2	8.8	4.5
16"	20.2	28.5	15.4	7.8

## CUBIC YARDS OF CONCRETE ANCHOR FOR VERTICAL BENDS

PIPE DIA.	45 ° BEND	22 1/2 ° BEND	11 1/4 ° BEND
4"-6"	0.7	0.4	0.2
8"-10"	1.1	0.6	0.3
12"	2.4	1.3	0.7
16"	4.2	2.3	1.2

### NOTES:

1. REQUIRED BEARING AREA IS GIVEN ON PLAN OR SHALL BE DETERMINED FROM TABLE.
2. WHERE PIPE CHANGES DIAMETER TO FITTING, DETERMINE BEARING AREA BASED UPON THE LARGEST PIPE DIAMETER.
3. THE MINIMUM ALLOWABLE BEARING AREA SHALL BE ONE (1) SQUARE FOOT REGARDLESS OF ANY APPROVED REACTION CALCULATIONS.
4. BELOW THE GROUND WATER TABLE THE QUANTITY OF CONCRETE FOR ANCHORS SHALL BE 1.75 TIMES THAT GIVEN IN TABLE.
5. #5 REBAR, 2 REQUIRED, SHALL BE INSTALLED AROUND PIPE IN CONCRETE. ANCHOR FOR VERTICAL BENDS. SEE DETAIL G-5 (TYP).
6. THE ENGINEER OF RECORD SHALL CALCULATE THE SIZE OF THE THRUST BLOCK/ANCHOR REQUIRED AS WELL AS ANY INSTALLATION NOT COVERED BY THE ABOVE.



**ST. LUCIE COUNTY  
WATER & WASTEWATER  
CONSTRUCTION STANDARDS**

**ADDITIONAL THRUST  
BLOCK REQUIREMENTS**

DRAWING NUMBER: **G-3**